

CLIENT: CRANE COMPOSITES
23525 W Eames St.
Channahon, IL 60410

Test Report No: TJ3811	Date: May 26, 2016
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SAMPLE ID: The client identified the following test material as “GLASBORD CGI”

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI facilities on May 3, 2016

TESTING PERIOD: May 24, 2016

AUTHORIZATION: Signed work order 16VB04181

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with CAN/ULC S102-10, “Method of Test for Surface Burning Characteristics of Building Materials and Assemblies”.

TEST RESULTS:	<u>Flame Spread Rating</u>	<u>Smoke Developed Classification</u>
	30	250

Detailed test results are presented in the subsequent pages of this report

Prepared By



Jeff Foster
Fire Test Technician

**Signed for and on behalf of
QAI Laboratories, Inc.**



J. Brian McDonald
Operations Manager

PREPARATION AND CONDITIONING: The sample was submitted in six panels 4 feet long measuring 24 inches wide and approximately .080" thick. The sample material was placed into conditioning at 73°F (±5°F) and 50% (±5%) relative humidity until day of testing.

MOUNTING METHOD: The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and 1/4" round metal rods placed at 2' intervals across the width of the test chamber, with cement board place between the sample and tunnel lid.

CEMENT BOARD PLACEMENT: The 1/4" cement boards were placed between the test specimen and the chamber lid.

TEST RESULTS:	<u>Flame Spread Values</u>	<u>Smoke Developed Values</u>
Test No. 1	31.8	248
Test No. 2	30.9	274
Test No. 3	<u>34.4</u>	<u>280</u>
Average	32.3	267.3

Rounded Average Flame Spread Rating (FSR): 30

Rounded Average Smoke Developed Classification (SDC): 250

CAN/ULC S102-10 TEST DATA SHEET: (Test 1)

CLIENT: Crane Composites **DATE:** May 26, 2016

SAMPLE: Glasbord CGI

IGNITION: 0 minutes, 58 seconds

FLAME FRONT: 8 feet maximum

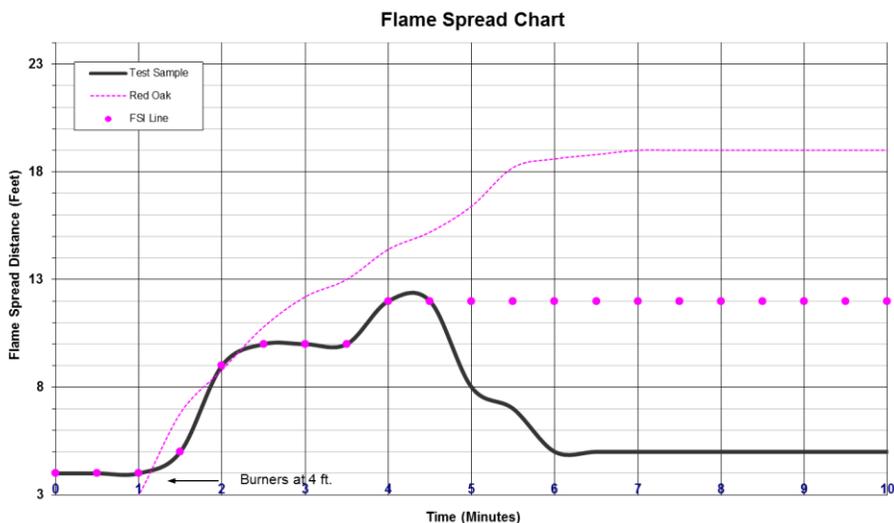
TIME TO MAXIMUM SPREAD: 4 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 31.8 **SMOKE DEVELOPED:** 248

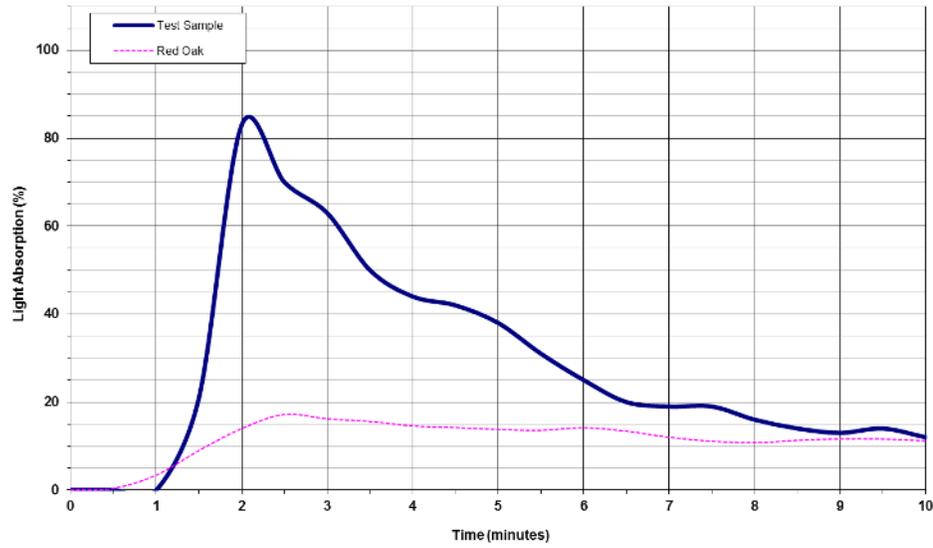
OBSERVATIONS:

Sustained ignition was at 58 seconds. Flame spread was slow and had reached 8 feet at 4 minutes before regressing. Moderate smoke was seen during the test. After burn was witnessed at the conclusion of the ten minute test and self-extinguished.

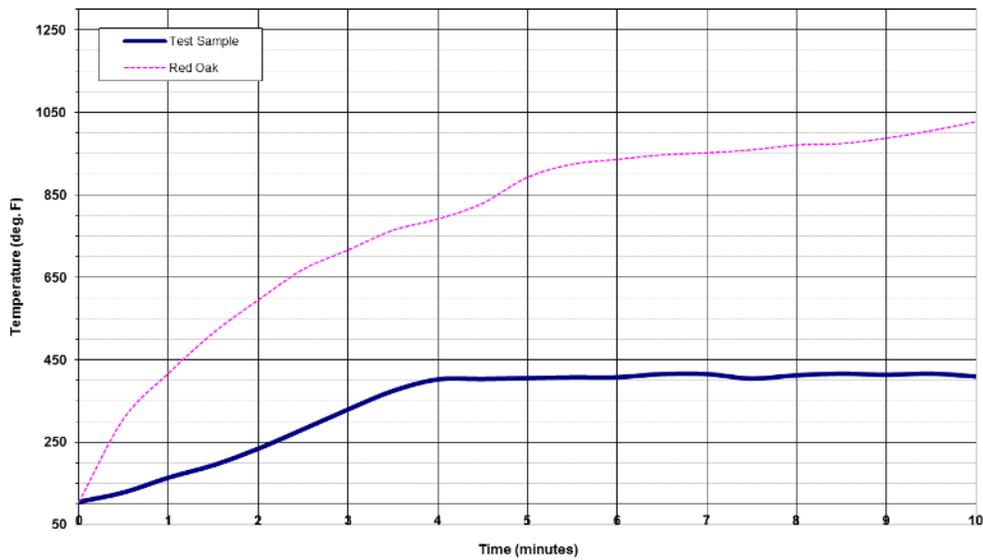


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Smoke Developed Chart



Temperature - Time Curve



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CAN/ULC S102-10 TEST DATA SHEET: (Test 2)

CLIENT: Crane Composites **DATE:** May 26, 2016

SAMPLE: Glasbord CGI

IGNITION: 0 minutes, 55 seconds

FLAME FRONT: 7 feet maximum

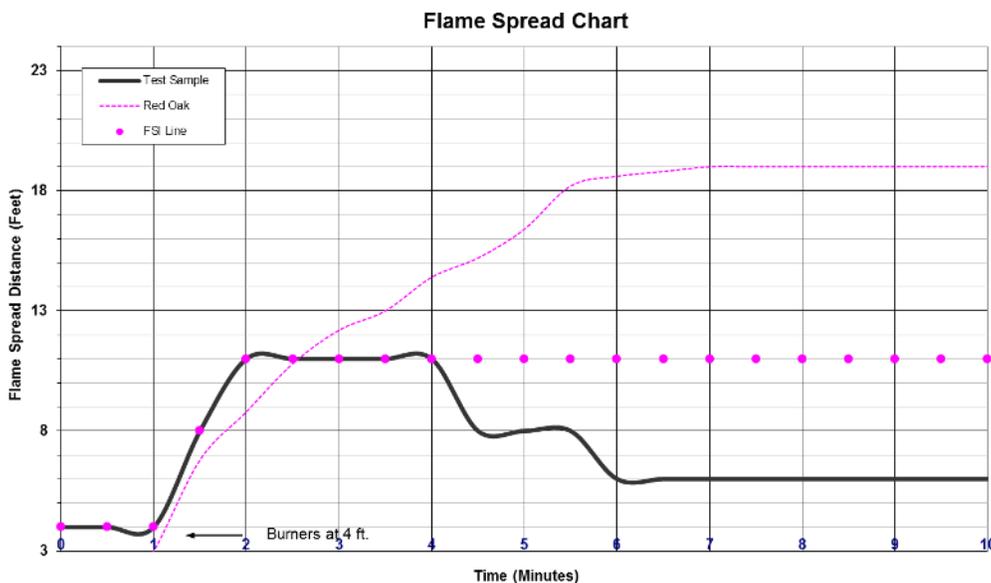
TIME TO MAXIMUM SPREAD: 2 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 30.9 **SMOKE DEVELOPED:** 274

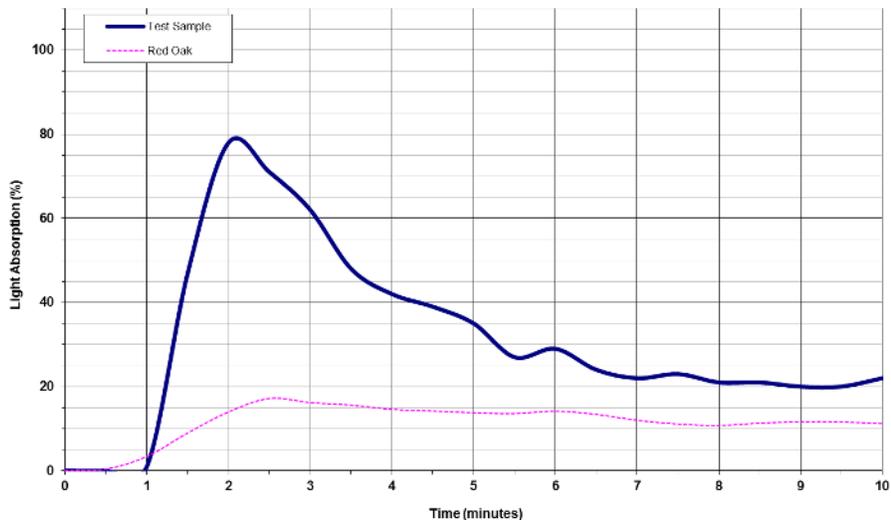
OBSERVATIONS:

Sustained ignition was at 55 seconds. Flame spread was swift and had reached 7 feet at 2 minutes, before regressing. Moderate smoke was seen during the test. After burn was witnessed at the conclusion of the ten minute test and self-extinguished.

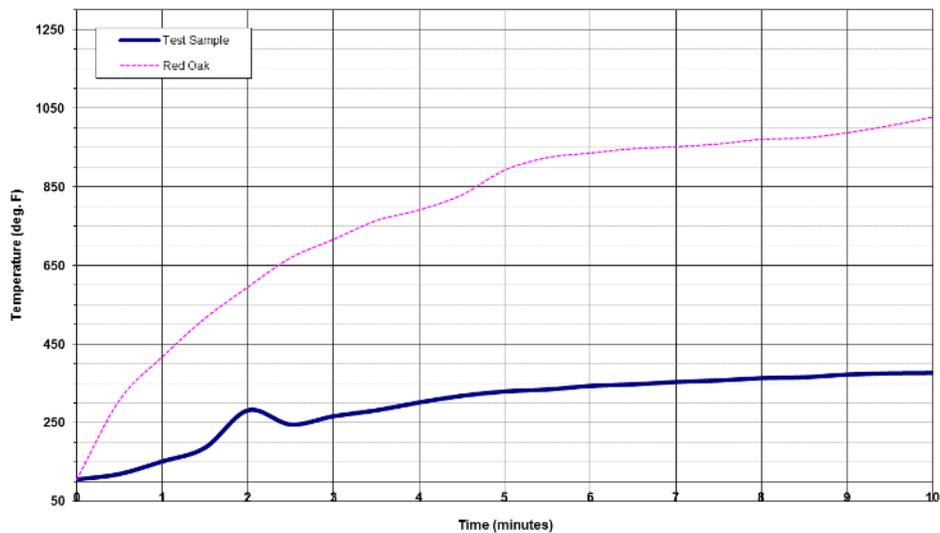


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Smoke Developed Chart



Temperature - Time Curve



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CAN/ULC S102-10 TEST DATA SHEET: (Test 3)

CLIENT: Crane Composites **DATE:** May 26, 2016

SAMPLE: Glasbord CGI

IGNITION: 0 minutes, 46 seconds

FLAME FRONT: 8 feet maximum

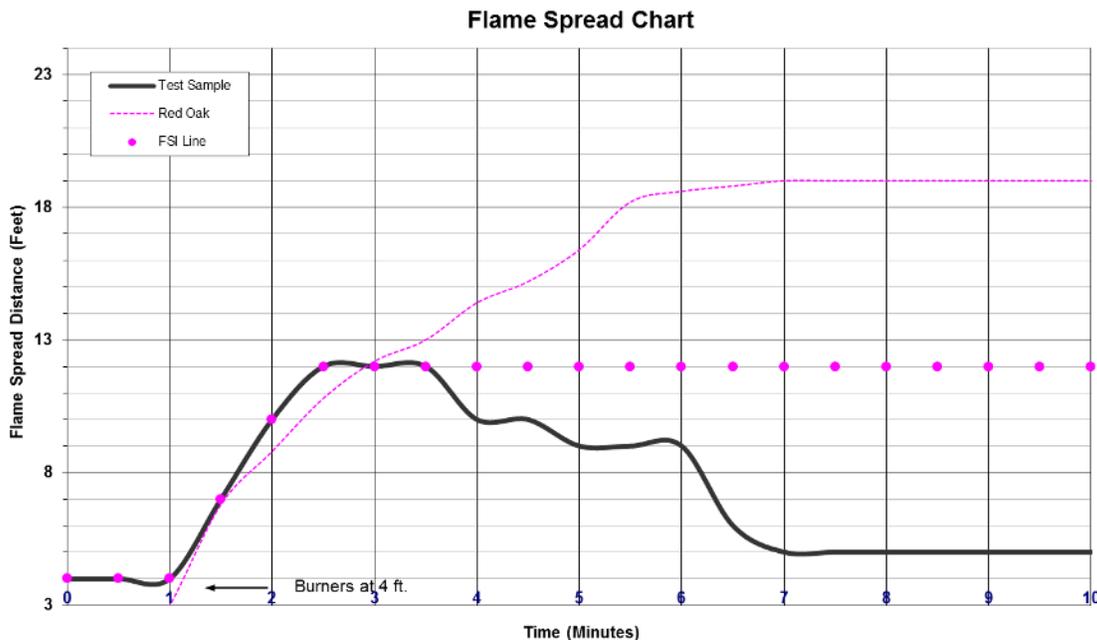
TIME TO MAXIMUM SPREAD: 2 minutes, 30 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 34.4 **SMOKE DEVELOPED:** 280

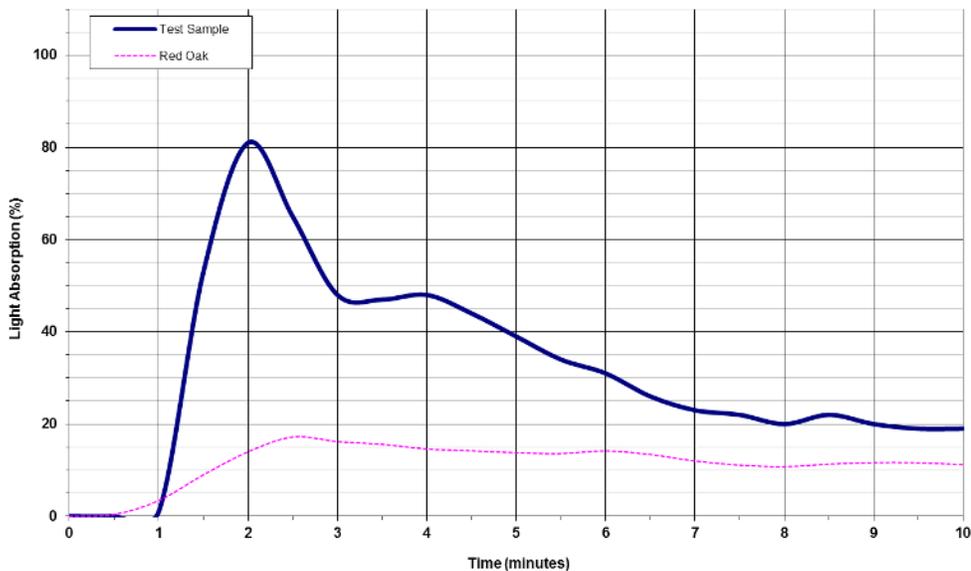
OBSERVATIONS:

Sustained ignition was at 55 seconds. Flame spread was swift and had reached 8 feet at 2 minutes, before regressing. Moderate smoke was seen during the test. After burn was witnessed at the conclusion of the ten minute test and self-extinguished.

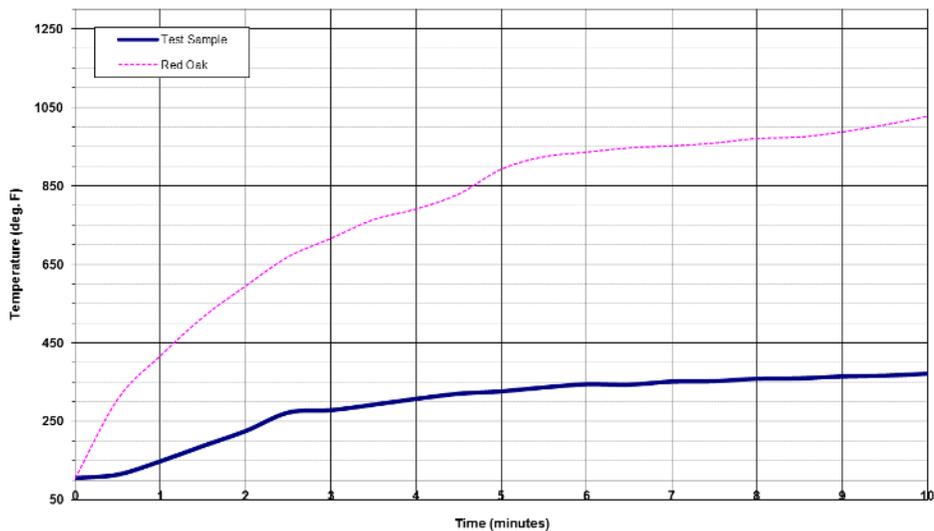


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Smoke Developed Chart



Temperature - Time Curve



*****END OF TEST REPORT*****

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